

WHAT IS CLAIMED IS:

1. A reinforcement for prefabricated concrete panels, comprising profiles to be embedded in a concrete body of a panel, wherein at least some of said profiles have perforations and undulations which are suitable to increase the bonding between the reinforcement and the concrete body of the panel.

2. The reinforcement according to claim 1, comprising a frame-like structure which is composed of longitudinal profiles which are connected one another by transverse profiles, at least some of said profiles of the frame-like structure having said perforations and undulations suitable to increase the bonding between said profiles and the concrete body of the panel.

3. The reinforcement according to claim 1, wherein said profiles have a substantially C-shaped transverse cross-section, with two substantially parallel end wings joined by an intermediate wing.

4. The reinforcement according to claim 1, wherein said profiles have a substantially Σ -shaped transverse cross-section, with two substantially parallel end wings joined by an intermediate wing which has at least two portions inclined with opposite inclinations.

5. The reinforcement according to claim 4, wherein said intermediate wing has a central portion and two end portions which are joined to said end wings and are arranged on planes substantially perpendicular to the planes of arrangement of said end wings and connected one another by said two inclined portions.

6. The reinforcement according to claim 1, wherein said undulations affect coplanar portions of said profiles.

7. The reinforcement according to claim 1, wherein said undulations affect non-coplanar portions of said profiles.

8. The reinforcement according to claim 3, wherein said perforations are formed both in said end wings and in said intermediate wing.

9. The reinforcement according to claim 1, wherein said undulations

affect regions between said perforations.

10. The reinforcement according to claim 1, wherein said undulations affect an edge of said perforations.

11. The reinforcement according to claim 1, wherein said undulations
5 have a constant height.

12. The reinforcement according to claim 1, wherein said undulations have a height or depth which increases toward the edges of the profiles.

13. The reinforcement according to claim 1, wherein said undulations have parallel sides.

10 14. The reinforcement according to claim 1, wherein said undulations have sides which are inclined with respect to each other.

15. The reinforcement according to claim 1, wherein said undulations have intersecting sides.

16. The reinforcement according to claim 3, wherein in said intermediate
15 wing there are perforations which are suitable to support inserts which can be embedded in the concrete body of the panel and can be used to lift said panel.

17. The reinforcement according to claim 2, wherein in said frame-like
20 structure at least longitudinal sides thereof are constituted by two of said profiles which are coupled by means of two end wings thereof.

18. The reinforcement according to claim 1, wherein said profiles are made of metal and said undulations are constituted by plastic deformations of said profiles.

19. A prefabricated concrete panel, comprising a reinforcement
25 according to claim 1.